

PTO/SB/08 (11-07)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>			
				Application Number		10/574,055	
				Filing Date		April 6, 2007	
				First Named Inventor		Robert S. Puskas	
				Art Unit		2857	
				Examiner Name		Unassigned	
Sheet	1	Of	8	Attorney Docket Number	31469-708.831		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1.	US 2002/0030812	03/14/2002	Ortyn et al.		
2.	US 2006/0003333	01/05/2006	Puskas		
3.	US 2002/0167665	11/14/2002	Yeung et al.		
4.	US 2003/0029995	02/13/2003	Mullins et al.		
5.	US 2005/0164205	07/28/2005	Puskas		
6.	US 2006/0078998	04/13/2006	Puskas		
7.	US 3,826,364	07/30/1974	Bonner, et al.		
8.	US 4,071,298	01/31/1978	Falconer		
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10.	US 4,243,318	01/06/1981	Stohr		
11.	US 4,251,733	02/17/1981	Hirleman, Jr.		
12.	US 4,452,773	06/05/1984	Molday		
13.	US 4,727,020	02/23/1988	Recktenwald		
14.	US 4,768,879	09/06/1988	McLachlan et al.		
15.	US 4,770,183	09/13/1988	Groman, et al.		
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17.	US 4,927,265	05/22/1990	Brownlee		
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19.	US 5,002,389	03/26/1991	Benser		
20.	US 5,041,733	08/20/1991	Noguchi et al.		
21.	US 5,108,179	04/28/1992	Myers		
22.	US 5,138,170	08/11/1992	Noguchi et al.		
23.	US 5,209,834	05/11/1993	Shera		
24.	US 5,269,937	12/14/1993	Dollinger et al.		

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	25.	US 5,385,707	03/31/1995	Miltenyi, et al.	
	26.	US 5,480,614	01/02/1996	Kamahori	
	27.	US 5,528,045	06/18/1996	Hoffman, et al.	
	28.	US 5,540,494	07/30/1996	Purvis Jr. et al.	
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	30.	US 5,571,410	11/05/1996	Swedberg et al.	
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	34.	US 5,645,702	07/08/1997	Witt et al.	
	35.	US 5,653,859	08/05/1997	Parton et al.	
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	47.	US 5,807,677	09/15/1998	Eigen et al.	
	48.	US 5,858,195	01/12/1999	Ramsey	

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49.	US 5,863,801	01/26/1999	Southgate et al.		
50.	US 5,949,532	09/07/1999	Schrof et al.		
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54.	US 6,041,515	03/28/2000	Ally et al.		
55.	US 6,049,380	04/11/2000	Goodwin et al.		
56.	US 6,071,478	06/06/2000	Chow		
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59.	US 6,211,955	04/03/2001	Basiji et al.		
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72.	US 6,582,903	06/24/2003	Rigler et al.		

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				Art Unit	2857
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Sheet	4	Of	8	Attorney Docket Number	31469-708.831

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73.	US 6,599,436		07/29/2003	Matzke et al.	
74.	US 6,608,680		08/19/2003	Basiji et al.	
75.	US 6,689,323		02/10/2004	Fisher et al.	
76.	US 6,783,992		08/31/2004	Robotti et al.	
77.	US 6,802,342		10/12/2004	Fernandes et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ¹ – Number ² – Kind Code ³ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
80.	DE 3720844		01/05/1989	Miltenyi, et al.		
81.	WO 90/10876 A1		09/20/1990	Adrian, et al.		
82.	WO 99/55461 A1		11/04/1999	Borrelli, et al.		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁴
83.	AMBROSE, et al. Single molecule fluorescence spectroscopy at ambient temperature. Chemical Reviews. 1999; 99(10): 2929-56.		
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	99.	EFFENHAUSER, et al. Integrated capillary electrophoresis on flexible silicone microdevices: analysis of DNA restriction fragments and detection of single DNA molecules on microchips. <i>Anal. Chem.</i> 1997; 69(17): 3451-3457.		
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	104.	Glenn Research Center, NASA. Particle Imaging Velocimetry. Availabe at http://www.grc.nasa.gov/WWW/OptInstr/piv/background.htm and associated web pages. no date		
	105.	GOLDE, T. Alzheimer disease therapy: can the amyloid cascade be halted? <i>The Journal of Clinical Investigation.</i> 2003; 11(1): 11-18.		
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	109.	HAUGLAND, R. P.. Molecular Probes Handbook of Fluorescent Probes and Research Product, Ninth Edition, 2002, Molecular Probes, Inc.		

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				Application Number	10/574,055
				Filing Date	April 6, 2007
				First Named Inventor	Robert S. Puskas
				Art Unit	2857
				Examiner Name	Unassigned
Sheet	7	Of	8	Attorney Docket Number	31469-708.831

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	110.	KELLER, et al. Analytical applications of single-molecule detection. <i>Analytical Chemistry</i> . 2002; 74(11): 317A-324A.	T*
	111.	LECAPTAIN, et al. Two-beam fluorescence cross-correlation spectroscopy in an electrophoretic mobility shift assay. <i>Anal Chem</i> . 2002; 74(5): 1171-1176.	
	112.	LI, et al. Ultrasensitive coincidence fluorescence detection of single DNA molecules. <i>Anal Chem</i> . 2003; 75(7): 1664-1670.	
	113.	LOSSCHER, et al. Counting of single protein molecules at interfaces and application of this technique in early-stage diagnosis. <i>Anal Chem</i> . 1998; 70(15): 3202-5.	
	114.	LUCEY, et al. Type 1 and type 2 cytokine dysregulation in human infectious, neoplastic, and inflammatory diseases. <i>Clinical Biology Reviews</i> . 1996; 9(4): 532-562.	
	115.	MA, et al. High-Throughput Single-Molecule Spectroscopy in Free Solution. <i>Anal. Chem</i> . 2000; 72: 4640-4645.	
	116.	MA, et al. Single-molecule immunoassay and DNA diagnosis. <i>Electrophoresis</i> . 2001; 22(3): 421-426.	
	117.	NGUYEN, et al. Detection of single molecules of phycoerythrin in hydrodynamically focused flows by laser-induced fluorescence. <i>Anal Chem</i> . 1987; 59(17): 2158-2161.	
	118.	PECK, et al. Single-molecule fluorescence detection: autocorrelation criterion and experimental realization with phycoerythrin. <i>Proc Natl Acad Sci USA</i> . 1989; 86(11): 4087-4091.	
	119.	SAUER, et al. Detection and identification of individual antigen molecules in human serum with pulsed semiconductor lasers. <i>Appl. Phys. B</i> . 1997; 65: 427-431.	
	120.	SHERA, et al. Detection of single fluorescent molecules. <i>Chemical Physics Letters</i> . 1990; 174(6): 553-557.	
	121.	SHORTREED, et al. High-throughput single-molecule DNA screening based on electrophoresis. <i>Anal Chem</i> . 2000; 72(13): 2879-2885.	
	122.	SIDRANSKY, D. Emerging molecular markers of cancer. <i>Nature Reviews: Cancer</i> . 2002; 2(3): 210-219.	

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	123.	SOPER, et al. Photon burst detection of single near-infrared fluorescent molecules. <i>Anal Chem.</i> 1993; 65(6): 740-747.	
	124.	SOPER, et al. Single-molecule detection in the near-IR using continuous wave diode laser excitation with an avalanche photon detector. <i>Applied Spectroscopy.</i> 1998; 52(1): 1-6.	
	125.	UPATNIEKS, et al. A kilohertz frame rate cinematographic PIV system for laboratory-scale turbulent and unsteady flows. <i>Experiments in Fluids.</i> 2002; 32: 87-98.	
	126.	VAN ORDEN, et al. Single-molecule identification in flowing sample streams by fluorescence burst size and intraburst fluorescence decay rate. <i>Anal Chem.</i> 1998; 70(7): 1444-1451.	
	127.	WABUYELE, et al. Single molecule detection of double-stranded DNA in poly(methylmethacrylate) and polycarbonate microfluidic devices. <i>Electrophoresis.</i> October 2001; 22(18): 3939-3948.	
	128.	WILLNEFF, J. A spatio-temporal matching algorithm for 3D particle tracking velocimetry: a dissertation submitted to the Swiss Federal Institute of Technology Zurich for the degree of Doctoral of Technical Sciences (abstract). September 2003. Diss. ETH No. 15276. Available at http://e-collection.ethbib.ethz.ch/ecol-pool/diss/abstracts/p15276.pdf .	
	129.	YEUNG. High-Throughput Single Molecule Screening of DNA and Proteins. <i>Chem Rec.</i> 2001; 1:123-129.	
	130.	ZHU, et al. Fluorescence multiplexing with time-resolved and spectral discrimination using a near-IR detector. <i>Anal Chem.</i> 2003; 75(10): 2280-2291.	

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